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ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
ΑN
     1995:187187 CAPLUS
     122:25815
DN
     Entered STN: 12 Nov 1994
ED
ΤI
     Imidacloprid - a new systemic insecticide.
     Elbert, A.; Becker, B.; Hartwig, J.; Erdelen, C.
ΑU
     Geschaftsbereich Pflanzenschutz Entwicklung/Insektizide, Bayer AG,
CS
     Leverkusen, 5090, Germany
SO
     Pflanzenschutz-Nachrichten Bayer (German Edition) (1991),
     44(2), 113-36
     CODEN: PNBYAT; ISSN: 0340-1723
PB
     Bayer AG
DT
     Journal
LA
    German
CC
     5-4 (Agrochemical Bioregulators)
AB
     The biol. profile of Imidacloprid (I) was defined on the basis
     of the results of exhaustive laboratory expts. and greenhouse trials. I is
     extremely effective against sucking insects, such as rice leafhoppers,
     aphids, thrips and mealybugs, and very effective against whitefly. It is
     also effective against some species of biting insects, such as paddy stem
    borers and Colorado beetle, but it has no effect on nematodes or spider
     mites. At comparatively high doses it kills adult insects and has
     ovicidal effects. I is a nicotinic acetylcholine receptor stimulator.
     Its mechanism of action differs from that of conventional insecticides.
     It therefore gives excellent control of all resistant populations
     investigated hitherto. I has a pos. temperature coefficient After foliar
     application, it has a good residual action, it is highly photostable and
     it shows satisfactory resistance to rain. I is active after oral
     ingestion and by direct contact, but it is not active in the vapor phase.
     The LD95 after oral ingestion by Myzus persicae is .apprx.2
     pq/aphid. After topical application it is .apprx.160 pg/aphid. It has
     not been possible to demonstrate recovery of injured aphids, or
     antifeeding effects. I has a faster action against aphids than
     oxydemeton-Me. After foliar application, I shows good translaminar and
     acropetal translocation, so it is also likely to provide effective control
     of pests with a furtive lifestyle, and protect the parts of the plant
     which regenerate after treatment. By virtue of its good contact action
     and powerful systemic action after uptake through the root system, I can
    be applied to soil and used as a seed dressing. It gives excellent
     control of pests such as onion maggots, Diabrotica, wire worms, termites
     and fire ants which live in the soil, and of insects such as aphids which
     live above ground level. It has a good residual action after application
     to the soil and when it is used as a seed dressing. The compatibility of
     I with plants is good after use as a seed dressing, as a soil treatment
     and after foliar application. By virtue of its biol. properties, I is
     likely to have a wide range of uses for controlling economically important
     pests of rice, cotton, cereals, maize, sugar beet, potatoes, vegetables,
     citrus fruit, pome and stone fruit and other crops.
ST
     VVImidacloprid systemic insecticide
TΤ
     Insecticides
        (Imidacloprid as systemic insecticide)
TΤ
     138261-41-3, Imidacloprid
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

  (Imidacloprid as systemic insecticide)
    ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
L2
     1994:712564 CAPLUS
ΑN
DN
     121:312564
ED
     Entered STN: 24 Dec 1994
     The molecular and crystal structure of imidacloprid (phase
ΤI
ΑU
     Born, L.
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Zentrale Forschung, Bayer AG, Leverkusen, 5090, Germany
CS
     Pflanzenschutz-Nachrichten Bayer (German Edition) (1991),
     44(2), 137-44
     CODEN: PNBYAT; ISSN: 0340-1723
     Bayer AG
PB
     Journal
DT
LA
     German
CC
     75-8 (Crystallography and Liquid Crystals)
     The mol. and crystal structure of imidacloprid (phase 2
AΒ
     ) were reported.
     imidacloprid insecticide mol crystal structure; NTN 33893
ST
     insecticide mol crystal structure; mol crystal structure
     imidacloprid insecticide; polymorphism mol crystal structure
     imidacloprid insecticide
ΙT
     Crystal structure
     Molecular structure
     Polymorphism
        (mol. and crystal structure of imidacloprid (phase 2
     138261-41-3, Imidacloprid
ΙT
     RL: PRP (Properties)
        (mol. and crystal structure of imidacloprid (phase 2
        ))
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